APPLICA	BLE STAN	IDARD										
	Operating ten range	nperature	-55 °C 10 65 °C		range	•		-10 °C to 50 °C (packed condition			ition)	
RATING	Voltage		30 V AC / [C	humi	dity ran		Relative humidity 90%MAX(no			ot dewed)	
	Current		0.20 A		Appli	cable ca	able		t=0.12±0.02mm, gol	d platin	g	
		•	SPEC	CIFIC	ATIOI	NS						
IT	EM		TEST METHOD			<u> </u>	RF	OUIF	REMENTS	QT	AT	
			1201 11100				- 112	<u> </u>	TEMETO	١ ٩٠		
CONSTRUCTION General examination		Visually a	and by measuring instrume	nt.		According to drawing.				×	×	
Marking		Visually and by measuring instrument. Confirmed visually.				(note 1,2)				×	×	
	ICAL CHA									^		
oltage proo						No flas	hover or h	reako	lown	×	T ~	
Insulation resistance		90 V AC for 1 min.			No flashover or breakdown. 50 MΩ MIN.				-	×		
risulation re-	Sistance	100 V DC	100 V DC.			30 IVIS 2	IVIIIN.			×	×	
Contact resistance		AC 20 mV MAX (1KHz), 1 mA.			200 mΩ MAX. Including FPC bulk resistance (L=8mm)				×	×		
MECHAN	IICAL CHA	ARACTE	RISTICS			moradi	ing i i o bu		Notarios (E simily			
Vibration	110/12 01/		y 10 to 55 Hz, half amplitu	de 0.75 m	nm,	① No	electrical o	discor	ntinuity of 1 us	T ×		
VIDIATION		for 10 cyc	for 10 cycles in 3 axial directions.			 No electrical discontinuity of 1 μs. Contact resistance: 200 mΩ MAX. 				^	1	
Shock			981 m/s ² , duration of pulse 6 ms at 3 times in 3 both axial directions.			No damage, crack and looseness of parts.			. ×	_		
Mechanical o	operation	10 times	10 times insertions and extractions.			 Contact resistance: 200 mΩ MAX. No damage, crack and looseness of parts. 			×	-		
FPC retentio	n force	Measured by applicable FPC. (thickness of FPC shall be t=0.12mm at initial condition)			Direction of insertion: (0.15 × n)+0.7N MIN(note3) (n: Number of contacts)			3) ×				
ENVIRO	VMENTAL		ACTERISTICS			l .				<u> </u>	<u> </u>	
Corrosion sa			at 35±2°C, 5% salt water	spray for	· 96 h.	Contac	t resistanc	e: 20	0 mΩ MAX.	×	-	
Rapid change of temperature		Temperature -55 \rightarrow +15 to +35 \rightarrow +85 \rightarrow +15 to +35 $^{\circ}$ C Time 30 \rightarrow 2 to 3 \rightarrow 30 \rightarrow 2 to 3 min Under 5 cycles.			 Contact resistance: 200 mΩ MAX. Insulation resistance: 50 MΩ MIN. No damage, crack and looseness of parts. 				×	-		
Damp heat (steady state)	Exposed at 40±2°C, Relative humidity 90 to 95 %, 96 h.				© 110	damago, o	, aoit	and reconless of parts	×	-	
Damp heat,cyclic		Exposed at -10 to +65°C, Relative humidity 90 to 96 %, 10 cycles, total 240 h.			 Contact resistance: 200 mΩ MAX. Insulation resistance: 1 MΩ MIN. (at high humidity) Insulation resistance: 50 MΩ MIN. 			×	_			
					(at dry) 4 No damage, crack and looseness of parts.							
Dry heat		Exposed	osed at 85±2°C, 96 h.			① Contact resistance: 200 m Ω MAX.				· ×	+-	
Cold			oosed at -55±3°C, 96 h.			② No damage, crack and looseness of parts.					+_	
Sulphur dioxide		Exposed Relative I	oosed at 40±2°C, ative humidity 80±5%			Contact resistance: 200 mΩ MAX.				×	-	
Hydrogen sulphide		Exposed	25±5 ppm for 96 h. Exposed at 40±2°C, Relative humidity 80±5%,							×	-	
			ppm for 96 h.									
COUN	T DE	ESCRIPTIO	ON OF REVISIONS		DESIGNED CHEC		CHECKED	D/	ATE			
REMARK							APPROV	FD	NF. MIYAZAKI	17	02. 10	
				CHECKED		-+	YH. MITAZAKI		02. 10 02. 10			
							HY. YAMAZAKI	_	02. 10 02. 10			
Unless otherwise specified re			efer to IEC 60512.			DRAWN				02. 10 02. 10		
Unless otherwise specified, refer to IEC 60512.					1	N .						
RS SPECIFICATION SHEET PAR				T NO. FH64MA-**S-0. 25SH		ELC-375451- IA-**S-0 25SHW		U				
			CODE		ГП		CL580	(99) <u>(</u>	1/2			
ORM HD0011-			,	•	CODE	INU.)LUUU		1/2	

SPECIFICATIONS							
ITEM	TEST METHOD	REQUIREMENTS	QT	АТ			
Solderability	Soldered at solder temperature, 245±3°C for immersion duration, 3±0.3 sec.	A new uniform coating of solder shall cover a minimum of 95% of the surface being immersed.	×	_			
Resistance to soldering heat	1) Reflow soldering: Peak TMP. 250°C MAX. Reflow TMP. over 230°C within 60 sec. Number of allowed reflow cycles 2 times. 2) Soldering irons: TMP. 350±10°C for 5±1 sec.	No deformation of case of excessive looseness of the terminals. (<i>note 4</i>)	×	_			

(note1)

This is a top contact point connector with back flip lock system.

(note2)

Do not close the actuator before inserting FPC even after the connector is mounted onto a PCB.

Closing the actuator without FPC could make the contact gap smaller, which increases the FPC insertion force.

(note3)

Stabilize the FPC to PCB or something fixed, if pull-up or pull-down force is exepected to be applied to the FPC.

There is a case which the FPC retention force doesn't fullfill the specification depending on the FPC specification.

(note4)

Blisters which may be generated on the housing do not affect product performance.

Note Q	Qualification Test AT:Assurance Test X:Applicable Test	DRAWIN	NG NO.	ELC-375451-99-00		
R	SPECIFICATION SHEET		FH64MA-**S-0. 25SHW(99)			
1.0	HIROSE ELECTRIC CO., LTD.	CODE NO		CL580	Δ	2/2